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Fourth International Fishery Congress

WASHINGTON, SEPTEMBER 22-26, 1908



PROGRAM :: PAPERS
LIST OF MEMBERS
ANNOUNCEMENTS



Fourth International Fishery Congress. 4th

WASHINGTON, SEPTEMBER 22-26, 1908

Honorary President :
THEODORE ROOSEVELT
President of the United States

PROGRAM :: PAPERS

LIST OF MEMBERS

ANNOUNCEMENTS

HEADQUARTERS OF THE CONGRESS
NEW WILLARD HOTEL
PENNSYLVANIA AVENUE AND FOURTEENTH STREET

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An office of the Congress is established in Room 1001 of the New Willard Hotel. Here members are requested to register, and may obtain programs, membership cards, invitations, and general information; and interpreters will be in attendance, of whose services members are invited to avail themselves

Gift

Mrs. Marcus Benjamin

Feb. 10, 1933

DAILY PROGRAM

TUESDAY, SEPTEMBER 22.

9.30 A. M.

Foreign members of the Congress will assemble in the Diplomatic Room of the State Department and proceed thence to the Diplomatic Reception Hall, where they will be received by the Secretary of State.

10.30 A. M.

The opening meeting of the Congress, at which Hon. George M. Bowers, United States Commisisoner of Fisheries, will preside, will be held in the hall of the National Geographic Society, Sixteenth and M Streets, N. W. Hon. Oscar S. Straus, Secretary of Commerce and Labor, will deliver an address of welcome on behalf of the United States Government; Hon. Henry L. West, Commissioner of the District of Columbia, will welcome the members to the city of Washington; and Dr. Hugh M. Smith, President of the American Fisheries Society, will extend a greeting on behalf of the society. A response in the name of the foreign members will be made by Prof. P. P. C. Hoek, Scientific Fishery Adviser of the Dutch Government.

After ratification of the election of the President and Secretary-General of the Congress, Prof. Hermon C. Bumpus, the President, will assume the chair; the election of vice-presidents and other officers will take place; committees will be appointed; and general miscellaneous business will be transacted, followed by adjournment for luncheon.

2.00 P. M.

Regular session of the Congress in banquet hall of the New Willard Hotel, where all subsequent business meetings will be held.

8.00 P. M.

Display of moving pictures of fishing, hunting and logging scenes, through courtesy of New England Forest, Fish and

Game Association, at Hall of National Geographic Society, Sixteenth and M. Streets, N. W. Cards of admission will be issued.

WEDNESDAY, SEPTEMBER 23.

9.30 A. M.

Session of Congress.

12.00 M.

Luncheon tendered to the members of the Congress by the American Fisheries Society, at the Arlington Hotel, Vermont Avenue, near H Street.

2.30 P. M.

Reception by the President of the United States at the White House. Cards of admission will be required, and these will be issued to members and accompanying ladies at the office of the Congress on Tuesday and Wednesday.

The remainder of the afternoon will be spent in sight-seeing. Automobiles will be in readiness at the east entrance of the White House immediately after the President's reception, to take members and ladies on a tour of the city. A group photograph of the members of the Congress will be made on the west portico of the Treasury Building before departure in the automobiles.

7.30 P. M.

Visit to Library of Congress, where there will be a display of fishery literature. Special electric cars will be in readiness at New Willard Hotel (north front).

THURSDAY, SEPTEMBER 24.

9.30 A. M.

Session of Congress.

1.00 P. M.

Complimentary luncheon tendered by the Blue Ridge Rod and Gun Club at New Willard Hotel.

2.30 P. M.

Session of Congress.

9.00 P. M.

Reception to members and ladies by the Secretary of Commerce and Labor at his home, 2600 Sixteenth Street, N. W. Evening dress. Invitation cards will be presented.

FRIDAY, SEPTEMBER 25.

9.30 A. M.

Session of Congress.

12.30 P. M.

Complimentary salmon luncheon given by Alaska Packers' Association, at New Willard Hotel.

2.30 P. M.

Session of Congress.

9.00 P. M.

Subscription banquet at which foreign members and their ladies will be guests of honor, Raleigh Hotel, Pennsylvania Avenue and Twelfth Street, N. W. Evening dress.

SATURDAY, SEPTEMBER 26.

9.30 A. M.

Session of Congress.

2.30 P. M.

Session of Congress. Award of competitive prizes. Adjournment.

COMMUNICATIONS

So far as practicable to state, the subjects that will be brought up at the different sessions are as follows:

September 22 and 23. Commercial fisheries; legislation and regulation relative to fishing, fish culture, and pollution and obstruction of waters; matters affecting the welfare of the fishing population international affairs affecting the fisheries.

September 24. Aquiculture; acclimatization of aquatic animals; fishways.

September 25. Biological investigation of waters and their inhabitants; diseases, parasites, and fatalities of water animals; preparation of museum and educational exhibits of water animals.

September 26. Announcement of competitive awards.

Following is a provisional list of the papers that will be presented to the Congress; others may be announced later. Those marked thus (*) are submitted in competition.

COMMERCIAL FISHERIES, FISHERY LEGISLATION, ETC.

1. Guano-producing birds of Peru. By Dr. Robert E. Coker, late fishery expert to the Government of Peru.
2. Lobsters and lobster protection in Massachusetts. By Dr. George W. Field, chairman Massachusetts Commission of Fisheries and Game.
3. Utilization of sea mussels and dogfish as food. By Irving A. Field, scientific assistant U. S. Bureau of Fisheries, Woods Hole, Massachusetts.
4. Questions affecting the sponge fishermen of the Mediterranean Sea and the Gulf of Mexico. By Charles Flegel, member of the Austrian Fisheries Society.
5. *On international regulations of the fisheries of the high seas. By Charles E. Fryer, Board of Agriculture and Fisheries, London, England.

6. *Effects of fishing on the abundance and movements of surface-swimming fishes which go in schools, particularly the menhaden and similar species. By Charles E. Fryer, Board of Agriculture and Fisheries, London, England.
7. *International regulations of the fisheries on the high seas. By Dr. T. Wemyss Fulton, director Marine Laboratory of the Fishery Board for Scotland, Aberdeen, Scotland.
8. *Methods of the menhaden fishery and their effect on the fish supply. By Walter E. Hathaway, Whitestone, Virginia.
9. *Necessity for a national concentration of forces of the states for the protection of bait or the food of fishes. By Charles F. Holder, Pasadena, California.
10. *Series of photographs, with brief descriptions, illustrating the capture of food and game fishes. By Charles F. Holder, Pasadena, California.
11. *Effects of fishing on the abundance of surface-swimming fishes and fishes that go in schools, particularly the menhaden and similar species. By Dr. W. C. Kendall, scientific assistant U. S. Bureau of Fisheries, Washington, D. C.
12. Historical account of the New England fisheries. By Raymond MacFarland, principal Leicester Academy, Leicester, Mass.
13. The fisheries of Newfoundland. By Raymond MacFarland, principal Leicester Academy, Leicester, Mass.
14. The fisheries of Guatemala. By Dr. S. E. Meek, Field Museum of Natural History, Chicago, Ill.
15. *Commercial sponges and the sponge fisheries. By Dr. H. F. Moore, scientific assistant U. S. Bureau of Fisheries, Washington, D. C.
16. *Effects of fishing on the abundance of surface-swimming fishes which go in schools. By Dr. O. T. Olsen, Grimsby, England.
17. *International regulations of the fisheries on the high seas. By Dr. O. T. Olsen, Grimsby, England.
18. Are fisheries inexhaustible, with special reference to the past and present state of the Canadian fisheries? By Prof. Edward E. Prince, Dominion Commissioner of Fisheries, Ottawa, Canada.
19. Disproportion of the responsibility assigned to oysters as disease-carrying agents. By Henry C. Rowe, president Connecticut Oyster Growers' Association, New Haven, Conn.
20. An improved and practical method of packing gutted fish for transportation and for keeping it fresh and sweet for a lengthened period. By A. Sölling, Commissioner of the Danish Fisheries Department, London, England.
21. *A process for preserving pearl-oyster fisheries and for increasing the value of the yield of pearls therefrom. By John I. Solomon, New York City.
22. The Alaska fur-seal fishery (illustrated). By Charles H. Townsend, director of the New York Aquarium, New York City.

AQUICULTURE AND ACCLIMATIZATION

23. *Artificial propagation of the turbot (*Rhombus maximus* Linnæus). By Dr. R. Anthony, director Marine Laboratory of the Paris Museum of Natural History, Saint Vaast la Hougue, France.
24. *Foods of young salmonoids. By Charles G. Atkins, superintendent U. S. Fisheries Station, East Orland, Maine.
25. The introduction of American fishes into New Zealand waters. By L. F. Ayson, chief inspector of fisheries, Wellington, New Zealand.
26. History of public fish culture. By Dr. Tarleton H. Bean, State fish culturist, New York City.
27. Pond culture of rainbow trout, brook trout and quinnat salmon in Italy, and the introduction of black bass and sunfish into open waters. By Guiseppe Besana, president Lombardy Society of Fish Culture and Fisheries, Milan, Italy.
28. *A method of rearing and handling young fish. By Eugene Cotte, Langdon, Kansas.
29. *A plan to promote the whitefish production of the Great Lakes. By Frank N. Clark, superintendent U. S. Fisheries Station, Northville, Mich.
30. *Sponge culture. By Dr. Jules Cotte, Marseilles, France.
31. *The utility of sea-fish hatching. By G. M. Dannevig, director Marine Fish Hatching Station, Arendal, Norway.
32. The Flodevig hatchery. By G. M. Dannevig, director Marine Fish Hatching Station, Arendal, Norway.
33. *A plan to promote the whitefish production of the Great Lakes. By S. W. Downing, superintendent U. S. Fisheries Station, Put-in Bay, Ohio.
34. Some phases of the shellfish industry of Massachusetts. By Dr. George W. Field, chairman Massachusetts Commission of Fish and Game, Boston, Mass.
35. *Improved methods and apparatus in pond culture. By Alfred E. Fuller, U. S. Fisheries Station, Northville, Michigan.
36. *The efficacy of artificial propagation as applied to marine fishes. By Dr. T. Wemyss Fulton, director Marine Laboratory of the Fishery Board for Scotland, Aberdeen, Scotland.
37. *Foods for young salmonoids. By Dr. Walter Hein, Royal Bavarian Biological Experiment Station, Munich, Germany.
38. Culture of the Rhine salmon. By Dr. P. P. C. Hoek, scientific fishery adviser to the Dutch Government, Haarlem, The Netherlands.
39. *A method of handling and transporting live fishes. By Charles F. Holder, Pasadena, California.

40. *A method of handling and transporting trout eggs. By W. S. Kincaid, general superintendent of State hatcheries, Denver, Colorado.
41. *The treatment of fish-cultural waters containing fish with remedial agents in solution. By Millard C. Marsh, agent at the salmon fisheries of Alaska, and Robert K. Robinson, superintendent U. S. Fisheries Station, White Sulphur Springs, West Virginia.
42. Japanese goldfish: Their varieties and cultivation. By Prof. S. Matsubara, director Imperial Fisheries Institute, Tokyo, Japan.
43. *A new principle of aquiculture. By Dr. A. D. Mead, member Rhode Island Commission of Inland Fisheries, Providence, R. I.
44. *A method of lobster culture. By Dr. A. D. Mead, member Rhode Island Commission of Inland Fisheries, Providence, R. I.
45. *Growing sponges from cuttings. By Dr. H. F. Moore, scientific assistant U. S. Bureau of Fisheries, Washington, D. C.
46. *The efficacy of artificial propagation as applied to marine fishes. By Dr. O. T. Olsen, Grimsby, England.
47. *Results of experiments to determine the comparative value of foods for rainbow trout. By Charles L. Paige, Shasta, Cal.
48. *A method employed in the propagation and culture of rainbow trout. By Charles L. Paige, Shasta, Cal.
49. The training and qualifications of the modern fish culturist. By Prof. Edward E. Prince, Dominion Commissioner of Fisheries, Ottawa, Canada.
50. *A plan for promoting the whitefish production of the Great Lakes. By Prof. Jacob Reighard, University of Michigan, Ann Arbor, Mich.
51. Experiments in hatching the eggs of the small-mouth black bass. By Robert Ripple. (Presented by Prof. E. A. Birge, Madison, Wisconsin.)
52. Improved hatching and rearing boxes, and continuous feeding of Salmonidæ. By G. E. Simms, London, England.
53. *Efficacy of marine pisciculture in the United States. By Dr. Hugh M. Smith, U. S. Deputy Commissioner of Fisheries, Washington, D. C.
54. American fish-cultural methods (illustrated). By John W. Titcomb, chief of the Division of Fish Culture, U. S. Bureau of Fisheries, Washington, D. C.
55. Acclimatization of American fishes in the Argentine Republic. By E. A. Tulian, chief of Section of Fish Culture, Ministry of Agriculture, Buenos Aires, Argentina.
56. *Apparatus and methods of fish culture. By Eugene Vincent, Trocadero Aquarium, Paris, France.
57. The acclimatization of American fishes in Austrian waters. By Franz von Pirko, president Austrian Fisheries Society, Vienna, Austria.

58. *Improved Cail fishway. By Hector von Bayer, architect and engineer, U. S. Bureau of Fisheries, Washington, D. C.
59. *Improvement in culture of large-mouth black bass. By Samuel Lovejoy, U. S. Fisheries Station, Bullochville, Georgia.

SCIENTIFIC RESEARCH

60. The chemist and the fisheries. By Dr. Carl L. Alsberg, scientific assistant U. S. Bureau of Fisheries, Woods Hole, Mass.
61. The gases dissolved in the waters of Wisconsin lakes (illustrated). By Prof. E. A. Birge, secretary Wisconsin Fish Commission, Madison, Wisconsin.
62. Investigations on the artificial propagation of freshwater mussels. By Prof. George Lefevre and Prof. W. C. Curtis, University of Missouri, Columbia, Mo.
63. *Methods of preparing fishes and batrachians for museum purposes. By J. D. Figgins, American Museum of Natural History, New York City.
64. *A method of absolute prevention of Costia necatrix in trout hatcheries. By Dr. Johann Franke, Laibach, Austria.
65. *A practical method of modeling fish. By Dwight Franklin, New York City.
66. *A method of preparing fishes for museum and exhibition purposes. By Angelo Ghidini, Museum of Geneva, Geneva, Switzerland.
67. Recent studies on the physiology of the Pacific coast salmon. By Prof. Charles W. Greene, University of Missouri, Columbia, Missouri.
68. *The habits and life history of the toadfish (*Opsanus tau*). By Dr. E. W. Gudger, State Normal College, Greensboro, N. C.
69. *A plan for an educational exhibit of fishes. By Charles F. Holder, Pasadena, Cal.
70. *A method of combating fungus disease in fishes in captivity. By Charles F. Holder, Pasadena, Cal.
71. *Methods of observing the habits and recording the life histories of fishes, with an illustrative example. By Charles F. Holder, Pasadena, Cal.
72. Notes on the flesh parasites of marine food fishes. By Prof. Edwin Linton, Washington and Jefferson College, Washington, Pennsylvania.
73. *Outline for an educational exhibit of fishes. By Frederic A. Lucas, curator-in-chief, Museum of the Brooklyn Institute of Arts and Sciences, Brooklyn, New York.
74. The effects upon fishes of dissolved substances in water. By Millard C. Marsh, agent at the salmon fisheries of Alaska.
75. The dissolved air content of water from a driven well at Central Station, Bureau of Fisheries, Washington, D. C. By Millard C. Marsh, agent at the salmon fisheries of Alaska.

76. A study of lakes Amatitlan and Atitlan, Guatamala, with especial reference to fish culture. By Dr. S. E. Meek, Field Museum of Natural History, Chicago, Ill.
77. *Quantitative or volumetric studies of the food and feeding of oysters. By Dr. H. F. Moore, scientific assistant U. S. Bureau of Fisheries, Washington, D. C.
78. *A method of preparing fishes for museum and exhibition purposes. By William Palmer, U. S. National Museum, Washington, D. C.
79. *A plan for an educational exhibit of fishes. By William Palmer, U. S. National Museum, Washington, D. C.
80. The structure and functions of the ear of the squeteague. By Prof. George H. Parker, Harvard University, Cambridge, Mass.
81. *Methods of observing the habits and recording the life histories of fishes. By Prof. Jacob Reighard, University of Michigan, Ann Arbor, Mich.
82. Effect of changes in water density on the blood of fishes. By Dr. George G. Scott, scientific assistant U. S. Bureau of Fisheries, Woods Hole, Massachusetts.
83. *Eighteen months' experience in abating the brook trout disease. By Al. Rosenberg, Spring Brook Trout Company, Kalamazoo, Michigan.
84. Fishes in their relation to the mosquito problem. By W. P. Seal, Delair, New Jersey.
85. *Treatment of fungus on fishes in captivity. By L. B. Spencer, New York Aquarium, New York City.
86. The intensive study of the fauna and flora of a restricted area of sea bottom. By Dr. Francis B. Sumner, director U. S. Fisheries Laboratory at Woods Hole, Mass.
87. *A method of preparing fishes for museum and exhibition purposes. By Constant Thys, Hasbrouck Heights, New Jersey.
88. On the development of sponges from tissue cells outside the body of the parent. By Prof. H. V. Wilson, University of North Carolina, Chapel Hill, N. C.
89. *A method of combating fungus disease in fishes in captivity. By Paul Zirzow, Berlin, Germany.

MISCELLANEOUS

90. Proposal for an international condensed dictionary of technical terms used in the fisheries and fish culture. By N. Borodine, late chief specialist in fish culture, St. Petersburg, Russia.
91. The United States Bureau of Fisheries: Its establishment, functions, organization, resources, operations, and achievements. By Dr. Hugh M. Smith, deputy commissioner of fisheries, Washington, D. C.

MEMBERS OF THE CONGRESS *

CLASSIFICATION.

- I. Delegates from United States Government.
- II. Delegates from foreign governments.
- III. Delegates from foreign societies and organizations.
- IV. Delegates from American States and Territories.
- V. Delegates from American societies and organizations.
- VI. Other members.

I. DELEGATES FROM UNITED STATES GOVERNMENT.

DELEGATES AT LARGE ON BEHALF OF UNITED STATES GOVERNMENT.

- Hon. George M. Bowers, U. S. Commissioner of Fish and Fisheries, Washington, D. C.
- Dr. Hermon C. Bumpus, Director American Museum of Natural History, New York, N. Y.
- Dr. David S. Jordan, International Fishery Commissioner, Stanford University, California.
- Dr. Richard Rathbun, Assistant Secretary Smithsonian Institution and member of Permanent Commission of International Fishery Congresses, Washington, D. C.
- Dr. Hugh M. Smith, Deputy Commissioner of Fisheries, member of Permanent Commission of International Fishery Congresses, Washington, D. C.
- Hon. William R. Wheeler, Assistant Secretary of Commerce and Labor, Washington, D. C.

DELEGATES FROM UNITED STATES BUREAU OF FISHERIES.

- Alvin B. Alexander, Assistant in Charge Division of Statistics, Washington, D. C.
- Charles G. Atkins, Superintendent Fisheries Station, East Orland, Maine.
- Ward T. Bower, Fish Culturist, Washington, D. C.
- Hector von Bayer, Architect and Engineer, Washington, D. C.
- Frank N. Clark, Superintendent Fisheries Station, Northville, Michigan.
- Irving H. Dunlap, Chief Clerk, Washington, D. C.
- J. Frank Ellis, Superintendent Car and Messenger Service, Washington, D. C.
- Dr. Barton W. Evermann, Assistant in Charge Division of Scientific Inquiry, Washington, D. C.
- Ansley Hall, Head Fishery Clerk, Washington, D. C.
- Dr. Henry F. Moore, Scientific Assistant, Washington, D. C.
- John J. Stranahan, Superintendent Fisheries Station, Bullochville, Georgia.
- Dr. Francis B. Sumner, Director Fisheries Laboratory, Woods Hole, Mass.
- John W. Titcomb, Assistant in Charge Division of Fish Culture, Washington, D. C.

*The list is preliminary, and the arrangement of the names is alphabetical under each class.

DELEGATES FROM UNITED STATES NATIONAL MUSEUM.

William de C. Ravenel, Administrative Assistant, Washington, D. C.

Dr. Leonhard Stejneger, Curator, Washington, D. C.

DELEGATES FROM THE SMITHSONIAN INSTITUTION.

Dr. Theodore N. Gill, Honorary Associate in Zoology, Washington, D. C.

Dr. Frederick W. True, Head Curator, Department of Biology, Washington, D. C.

DELEGATES FROM NAVY DEPARTMENT.

Rear-Admiral George W. Baird, U. S. N., retired, Washington, D. C.

Medical Director James M. Flint, U. S. N., retired, Washington, D. C.

Commander Robert Platt, U. S. N., retired, Washington, D. C.

DELEGATES FROM DEPARTMENT OF AGRICULTURE.

Dr. Theodore S. Palmer, Assistant in Charge of Game Preservation, Bureau of Biological Survey, Washington, D. C.

Hon. Gifford Pinchot, Chief Forester, Forest Service, Washington, D. C.

Dr. Brayton, H. Ransom, Chief Zoological Division, Bureau of Animal Industry, Washington, D. C.

DELEGATES FROM TREASURY DEPARTMENT.

Dr. Joseph Goldberger, Passed Assistant Surgeon, Public Health and Marine Hospital Service, Washington, D. C.

II. DELEGATES FROM FOREIGN GOVERNMENTS.*

AUSTRIA.

Dr. Heinrich von Kadich, Councillor of Administration, Department of Forestry and Domain, Vienna.

BRAZIL.

Lieut. Commander Radler de Aquino, Naval Attache, Brazilian Embassy, Washington, D. C.

CANADA.

Prof. Edward E. Prince, Dominion Commisisoner of Fisheries, Ottawa.

CHINA.

Mr. Chang Po Ling, Tientsin.

Mr. Chang Wen Ting, Shanghai.

Mr. Chen Chü Kang, Shanghai.

Mr. Kuo Feng Ming, Shanghai.

Mr. Li Chin Hsiang, Tientsin.

Dr. Wei-ching W. Yen, Second Secretary Imperial Chinese Legation, Washington, D. C.

GUATEMALA.

Dr. Ramon Bengoechea, Consul-General of Guatemala, New York City.

*List incomplete.

ITALY.

Lieut. Charles Pfister, Naval Attache, Italian Embassy, representing the Ministry of the Navy.

————— representing the Ministry of Agriculture, Industry and Commerce.

JAPAN.

Dr. Tasaku Kitahara, Imperial Fisheries Bureau of the Department of Agriculture and Commerce, and Imperial Fisheries Institute, Tokyo.

MEXICO.

Mr. José F. Godoy, Chargé d'Affaires ad interim, Mexican Embassy, Washington, D. C.

Mr. Brasiliso Romo.

Mr. Lauro Viadas.

NETHERLANDS.

Prof. P. P. C. Hoek, Scientific Fishery Adviser of Dutch Government, Haarlem.

NEW ZEALAND.

Mr. H. Stephenson Smith, Agent of the New Zealand Government, San Francisco, California.

PERU.

Dr. Robert E. Coker, Fishery Expert of Peruvian Government, Lima.

ROUMANIA.

Dr. Gregoire Antipa, Inspector-General of Fisheries, Bucharest.

SWEDEN.

Dr. Oscar Fritiof Nordqvist, Swedish Commissioner of Fisheries, Stockholm.

III. DELEGATES FROM FOREIGN SOCIETIES AND ORGANIZATIONS.

IMPERIAL AND ROYAL AUSTRIAN FISHERIES SOCIETY.

Mr. Franz von Pirko, President of the Society, Vienna, Austria.

INTERNATIONAL OFFICE OF DOCUMENTATION FOR THE FISHERIES.

Mr. Marcel de Contreras, Director, Brussels, Belgium.

BERMUDA NATURAL HISTORY SOCIETY.

Dr. E. L. Mark, Director Biological Station, Hamilton, Bermuda.

Mr. Louis L. Mowbray, Curator to Natural History Society, Hamilton, Bermuda.

ROYAL GEOGRAPHICAL SOCIETY.

Dr. O. T. Olsen, Grimsby, England.

GERMAN FISHERIES SOCIETY.

Dr. Walther Naumann, Lipsa near Ruhland, Germany.

Mr. Fr. Ziemsen, Vierreggenhof near Wismar, Germany.

GERMAN SOCIETY OF ANGLERS, AND NETHERLAND HEALTH SOCIETY.

Mr. Boreel de Maurignault, Alphen, Holland.

SOCIETY FOR THE PROMOTION OF NORWEGIAN FISHERIES.

Mr. M. Barclay, Editor of "Norsk Fiskeritidende," Conservator of the Fishery Museum, Bergen, Norway.

ONTARIO FOREST, FISH AND GAME PROTECTIVE ASSOCIATION.

Mr. A. Kelly Evans, Secretary-Treasurer of the Society, Toronto, Ontario, Canada.

IV. DELEGATES FROM AMERICAN STATES AND TERRITORIES.

ALABAMA.

Col. T. T. Ashford, Birmingham.
Hon. Geo. P. Jones, Florence.
Hon. William Lackey, Dadesville.
Hon. Daniel Pratt, Prattsville.
Hon. John H. Wallace, Jr., State Game and Fish Commissioner, Montgomery.

ALASKA.

James T. Barron, President and Manager Thlinket Packing Co., Portland, Oregon.
C. W. Dorr, Vice-President and General Counsel, Alaska Packers' Association, San Francisco, California.
M. G. Munly, Secretary Thlinket Packing Co., Portland, Oregon.

CALIFORNIA.

Charles L. Paige, Shasta.
F. W. Van Sicklen, State Fish Commissioner, San Francisco.
Hon. Wm. R. Wheeler, Assistant Secretary of Commerce and Labor, Washington, D. C.

CANAL ZONE.

H. D. Reed, Executive Secretary, Ancon.
T. M. Cooke, Collector of Customs, Ancon.

COLORADO.

David E. Farr, Commissioner of Game and Fish, Denver.
Miss Minnie P. Farr, Denver.
William S. Kincaid, General Superintendent State Hatcheries, Denver.

CONNECTICUT.

John H. Clark, New Haven.
John M. Crampton, New Haven.
E. Hart Geer, Secretary Department of Fish and Game, Lyme.
George T. Mathewson, President Department of Fish and Game, Enfield.
Christian Swartz, Member of Shellfish Commission, Norwalk.
George C. Waldo, Member of Shellfish Commission, Bridgeport.

DELAWARE.

Alexander Cooper, Wilmington.
Louis A. Drexler, Bethany Beach.
Dr. C. R. Layton, Georgetown.
Charles J. Luff, Wyoming.
Dr. Evan G. Shortledge, Wilmington.

DISTRICT OF COLUMBIA.

Dr. W. S. Harban, Washington.
Major Richard Sylvester, Washington.
Justice D. T. Wright, Washington.
Dr. H. C. Yarrow, Washington.
Dr. William P. Young, Washington.

FLORIDA.

John Y. Detwiler, Honorary Commissioner of Fisheries, New Smyrna.
T. E. Wells, Pensacola.

GEORGIA.

A. T. Dallis, State Superintendent of Fisheries, LaGrange.
Donald Fraser, Hinesville.
J. W. Hughes, Ludowici.
L. R. Massengale, Warrenton.
H. Y. McCord, Atlanta.
J. T. Sullivan, Savannah.

IDAHO.

Martin Garn, Sugar City.
William N. Stephens, State Fish and Game Warden, Boise.
William Van Iorns, Hagerman.

ILLINOIS.

W. W. Aitchison, Chicago.
N. H. Cohen, President State Board of Fish Commissioners, Urbana.
Claudius Conant, Chicago.
Capt. Richard Smith, Waukegan.
Waller G. Robbins, Chicago.

INDIANA.

E. E. Earle, Chief Deputy Commissioner of Fisheries and Game, Indianapolis.
Hon. Z. T. Sweeney, Commissioner of Fisheries and Game, Columbus.

IOWA.

George A. Lincoln, State Fish and Game Warden, Cedar Rapids.
George McCartney, Des Moines.
L. B. Peterson, Spirit Lake.
John G. Smith, Algona.
E. F. Wilson, Okoboji.

MAINE.

James Donahue, State Commissioner of Sea and Shore Fisheries, Rockland.
T. E. Libby, Vinal Haven.

MARYLAND.

B. Howard Haman, Baltimore.
Francis V. King, Leonardtown.
George Dobbin Penniman, Baltimore.
Joseph E. Spencer, Lapidum.
William A. Stewart, Crisfield.
Edward C. Wilson, North East.

MASSACHUSETTS.

Dr. George W. Field, Chairman Commissioners of Fisheries and Game, Boston.

MICHIGAN.

C. E. Ainsworth, Sault Ste. Marie.

August J. Anderson, Marquette.

C. E. Brewster, Grand Rapids.

F. S. Burgess, Detroit.

H. J. Dornbos, Grand Haven.

W. P. Kavanagh, Bay City.

Dwight Lydell, Grand Rapids.

MINNESOTA.

Carlos E. Avery, Executive Agent, Board of Fish and Game Commissioners, St. Paul.

Samuel F. Fullerton, Board of Fish and Game Commissioners, Duluth.

John H. Grill, Board of Fish and Game Commissioners, St. Paul.

MISSISSIPPI.

Hon. John M. Allen, Tupelo.

Hon. E. J. Bowers, House of Representatives, Washington.

F. S. Hewes, Jr., Gulfport.

Frank Lewis, Scranton.

MISSOURI.

Robert E. DeWitt, St. Joseph.

John Gable, Member of State Fish Commission, Browning.

Hon. William H. Hughes, Vice-President State Fish Commission, St. Louis.

Hon. Richard Porter, President State Fish Commission, Paris.

Hon. J. M. Shortal, Secretary State Fish Commission, St. Louis.

MONTANA.

J. B. Annin, Columbus.

Dr. D. J. Donohue, Glendive.

M. P. Gilchrist, Butte.

William B. Rhoades, Kalispell.

William H. Young, Helena.

NEBRASKA.

W. J. O'Brien, State Fish Commissioner Gretna.

NEVADA.

Jean Allison, Ely.

Hon. George T. Mills, Chairman Nevada Fish Commission, Carson.

NEW MEXICO.

W. E. Griffin, Santa Fe.

A. L. Hobbs, Raton.

H. W. Kelly, Las Vegas.

P. B. Otero, Santa Fe.

Harry Sims, Pecos.

W. B. Walton, Silver City.

NEW YORK.

Dr. Tarleton H. Bean, State Fish Culturist, New York City.
George B. Grinnell, Editor of "Forest and Stream," New York City.
George E. Jennings, Editor of "Fishing Gazette," New York City.
Hon. J. S. Whipple, State Forest, Fish and Game Commissioner, Salamanca.
C. H. Wilson, Glens Falls.
B. Frank Wood, Superintendent of Shell Fisheries, Jamaica.

NORTH CAROLINA.

J. C. B. Eringhaus, Elizabeth City.
George N. Ives, New Bern.
Theodore S. Meekins, State Fish Commissioner, Manteo.
Dr. Joseph Hyde Pratt, State Geologist, Chapel Hill.
Joseph F. Tayloe, Washington.
Frank Wood, Edenton.

OHIO.

Dr. D. W. Greene, Member of State Fish and Game Commission, Dayton.
George W. McCook, Member of State Fish and Game Commission, Steubenville.
Hon. Paul North, President State Fish and Game Commission, Cleveland.
Thos. B. Paxton, Member of State Fish and Game Commission, Cincinnati.
J. F. Rankin, Member of State Fish and Game Commission, South Charleston.

OKLAHOMA.

Robert Lowry, Stillwater.
Eugene Watrous, State Game and Fish Warden, Enid.

OREGON.

H. C. McAllister, Master Fish Warden, Salem.

PENNSYLVANIA.

Henry J. Hinrichs, Erie.
Hon. W. A. Leisenring, Member of Department of Fisheries, Mauch Chunk.
Hon. W. E. Meehan, Commissioner of Fisheries, Harrisburg.
John E. Reynolds, Meadville.
Marion G. Sellers, Philadelphia.

RHODE ISLAND.

Henry T. Root, President Commission of Inland Fisheries, Providence.
Charles W. Willard, Commissioner of Inland Fisheries, Westerly.
Dr. A. D. Mead, Commissioner of Inland Fisheries, Providence.
W. P. Morton, Secretary Commissioner of Inland Fisheries, Providence.
W. H. Boardman, Commissioner of Inland Fisheries, Central Falls.

SOUTH CAROLINA.

L. M. Gasque, Marion.
George S. Mower, Newberry.
J. M. Rhett, Beaufort.

SOUTH DAKOTA.

George V. Ayers, Deadwood.
D. C. Booth, Spearfish.
Dr. R. W. Calkins, Deadwood.
Charles E. Deland, Pierre.
Prof. Robert L. Slagle, Brookings.

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Maxwell Evarts, Windsor.
J. F. Flint, Burlington.
C. A. Gale, Rutland.
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VIRGINIA.

Lewis Fernstein, Norfolk.
Dr. Frank Fletcher, Jenkins Bridge.
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Hon. James N. Stubbs, Woods Crossroads.

WASHINGTON.

Frank N. Fitzgerald, Seattle.
Miller Freeman, Editor "Pacific Fisherman," Seattle.
T. J. Gorman, Colman Building, Seattle.

WEST VIRGINIA.

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Hon. L. C. Crile, Clarksburg.
Thos. M. Darrah, Wheeling.
Franz A. Degler, Elkins.
J. A. de Gruyter, Charleston.
Henry Gilmer, Lewisburg.
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Hon. J. H. Marcum, State Game and Fish Warden, Huntington.
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E. M. McPeak, Fayetteville.

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Robert K. Robinson, White Sulphur Springs.
Frank S. Smith, Parkersburg.
Geo. E. Stifel, Esq., Wheeling.
William R. Stoops, Wheeling.
Hon. George C. Sturgiss, House of Representatives, Washington, D. C.
C. L. Topping, Charleston.
Col. Robert Williamson, Huntington.

WISCONSIN.

Dr. E. A. Birge, Secretary Commission of Fisheries, Madison.
Hon. Neal Brown, Wausau.
James H. Jenkins, Oshkosh.
Hon. George F. Peabody, Appleton.
Hon. J. W. Stone, State Fish and Game Warden, Madison.

WYOMING.

Hon. C. W. Morgareidge, Superintendent of State Hatcheries, Wolf.
Hon. Theodore Tregoning, Laramie.

V. DELEGATES FROM AMERICAN SOCIETIES AND ORGANIZATIONS.

AMERICAN FISHERIES SOCIETY.

Seymour Bower, Superintendent Michigan Fish Commission, Detroit, Michigan.
James Cruickshank, New York, N. Y.
Dr. James A. Henshall, Superintendent U. S. Fisheries Station, Bozeman, Montana.
H. F. Hurlbut, Fish Culturist, East Freetown, Massachusetts.
Hon. Edwin A. Newman, Washington, D. C.

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Scott C. Bone, Editor "The Washington Herald," Washington, D. C.
Clarence F. Norment, Washington, D. C.

CARNEGIE INSTITUTION OF WASHINGTON, STATION FOR EXPERIMENTAL EVOLUTION,
COLD SPRING HARBOR, NEW YORK.

Dr. Charles B. Davenport, Director, Cold Spring Harbor, New York.

FIELD MUSEUM OF NATURAL HISTORY.

Dr. Seth E. Meek, Chicago, Illinois.

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D. S. Porter, Washington, D. C.

Thos. C. Noyes, Washington, D. C.

William F. Gude, Washington, D. C.

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Washington, D. C.

Henry Talbott, Interstate Commerce Commission, Washington, D. C.

Dr. W. S. Harban, Washington, D. C.

Major Richard Sylvester, Washington, D. C.

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NATIONAL ASSOCIATION OF AUDUBON SOCIETIES FOR THE PROTECTION OF WILD BIRDS
AND ANIMALS.

William Dutcher, President, New York City.

T. Gilbert Pearson, Secretary, Greensboro, North Carolina.

NATIONAL ASSOCIATION OF GAME AND FISH WARDENS AND COMMISSIONERS.

Carlos Avery, Executive Agent, Minnesota Game and Fish Commission, St. Paul,
Minnesota.

W. F. Scott, President National Association of Game and Fish Wardens and Com-
missioners, Helena, Montana.

Charles A. Vogelsang, Chief Deputy California Game and Fish Commission, San
Francisco, California.

NEW ENGLAND FOREST, FISH AND GAME ASSOCIATION.

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Hon. L. C. Crile, Clarksburg.

Andrew Price, Marlinton.

E. M. McPeak, Fayetteville.

Hon. Anton Reymann, Wheeling.

Hon. George E. Stifel, Wheeling.

VI. OTHER MEMBERS.

- Dr. Carl L. Alsberg, Associate Professor of Zoology, Harvard University, Cambridge, Massachusetts.
- Henry D. Aller, Director Marine Biological Laboratory of Bureau of Fisheries, Beaufort, North Carolina.
- Dr. R. Anthony, Museum of Natural History, Paris, France.
- L. F. Ayson, Commissioner of Fisheries of New Zealand, Wellington.
- Prof. Dr. Arthur Bellini, Commachio, Italy.
- Dr. Marcus Benjamin, Editor, U. S. National Museum, Washington, D. C.
- Guisepppe Besana, President Lombardy Fishery Society, Milan, Italy.
- H. C. Bliss, Alaska Packers' Association, San Francisco, California.
- Nicholas Borodine, late Chief Specialist in Fish Culture, Department of Agriculture, St. Petersburg, Russia.
- Eugene Catte, Langdon, Kansas.
- R. J. Conway, Director of Aquarium, Detroit, Michigan.
- Dr. Jules Cotte, Station of Marine Zoology, Endoume, France.
- Prof. W. C. Curtis, University of Missouri, Columbia, Missouri.
- G. M. Dannevig, Director Marine Fish-Hatching Station, Arendal, Norway.
- Dr. Frederick W. D'Evelyn, Alameda, California.
- N. T. DePauw, Waverley Farms, Haymarket, Virginia.
- Charles Flégel, Member Imperial Austrian Fisheries Society, Trieste, Austria.
- S. W. Downing, Superintendent U. S. Fisheries Station, Put-in Bay, Ohio.
- Prof. Johann Franke, Laibach, Austria.
- Dr. Irving A. Field, Scientific Assistant, U. S. Bureau of Fisheries, Woods Hole, Massachusetts.
- John D. Figgins, American Museum of Natural History, New York City.
- Dwight Franklin, New York City.
- Charles E. Fryer, British Board of Agriculture and Fisheries, London, England.
- Alfred E. Fuller, U. S. Fisheries Station, Northville, Michigan.
- Dr. T. Wemyss Fulton, Aberdeen, Scotland.
- Angelo Ghidini, Museum of Geneva, Geneva, Switzerland.
- Prof. Charles W. Greene, University of Missouri, Columbia, Missouri.
- Dr. Frederic P. Gorham, Brown University, Providence, Rhode Island.
- Dr. E. W. Gudger, State Normal and Industrial College, Greensboro, North Carolina.
- Walter E. Hathaway, White Stone, Virginia.
- Dr. Walter Hein, Royal Bavarian Biological Experiment Station, Munich, Germany.
- Prof. Dr. Bruno Hofer, Royal Bavarian Biological Experiment Station, Munich, Germany.
- Dr. Franz Ritter von Juraschek, Court Councillor, Vienna, Austria.
- Dr. William C. Kendall, Scientific Assistant, U. S. Bureau of Fisheries, Washington, D. C.
- Dr. George Frederick Kunz, New York City.
- Prof. George Lefevre, University of Missouri, Columbia, Missouri.
- Prof. Edwin Linton, Washington and Jefferson College, Washington, Pennsylvania.
- Samuel Lovejoy, U. S. Fisheries Station, Bullochville, Georgia.
- Dr. Frederic A. Lucas, Curator-in-Chief of the Museum, Brooklyn Institute of Arts and Sciences, Brooklyn, New York.

M. C. Marsh, Agent at the Alaska Salmon Fisheries, care of Bureau of Fisheries, Washington, D. C.

Prof. S. Matsubara, Director of the Imperial Fishery Institute, Tokyo, Japan.

W. L. May, Denver Convention League, Denver, Colorado.

Prof. Raymond McFarland, Principal of Leicester Academy, Leicester, Massachusetts.

Roy W. Miner, Assistant Curator, American Museum of Natural History, New York City.

Charles L. Paige, Shasta, California.

William Palmer, U. S. National Museum, Washington, D. C.

Prof. George H. Parker, Harvard University, Cambridge, Massachusetts.

Edward E. Race, Superintendent U. S. Fisheries Station, Green Lake, Maine.

Casimir Raveret-Wattel, Paris, France.

Prof. Jacob Reighard, University of Michigan, Ann Arbor, Michigan.

Robert K. Robinson, Superintendent U. S. Fisheries Station, White Sulphur Springs, West Virginia.

Al. Rosenberg, Spring Brook Trout Company, Kalamazoo, Michigan.

Henry C. Rowe, President Connecticut Oyster Growers' Association, New Haven, Connecticut.

Dr. George G. Scott, College of the City of New York, New York City.

William P. Seal, Delair, New Jersey.

G. E. Simms, London, England.

John I. Solomon, New York City.

A. Söiling, Commissioner of Danish Fisheries Department, London, England.

L. B. Spencer, New York Aquarium, New York City.

Charles H. Stevenson, Fisheries Assistant, U. S. Bureau of Fisheries, Washington, D. C.

Constant Thys, Hasbrouck Heights, New Jersey.

E. A. Tulian, Chief of Fish Cultural Section, Ministry of Agriculture, Buenos Aires, Argentina.

Dr. Antoine Valle, Secretary-General of Austrian Society of Marine Fishing and Fish Culture, Trieste, Austria.

Eugene Vincent, Trocadero Aquarium, Paris, France.

Prof. Decio Vinciguerra, Director of the Royal Fish-Cultural Station and Aquarium, Rome, Italy.

E. C. Whitman, Board of Trade, Canso, Nova Scotia.

Prof. H. V. Wilson, Professor of Zoology, University of North Carolina, Chapel Hill, North Carolina.

Paul Zirzow, Berlin, Germany.

EXHIBITS

In connection with the Congress the United States National Museum has prepared special exhibits of (1) fishes and reptiles of the United States and its possessions, and (2) models of vessels and boats now and formerly employed in the fisheries of the United States. The regular exhibits of marine invertebrates in the Smithsonian Institution and the general collections of the Museum will also be of interest to members of the Congress.

At the office of the United States Bureau of Fisheries there is a small museum containing, among other objects, the following:

(1) The aquarium, containing about 50 species of fresh-water and marine food and game fishes, and 6 or 8 species of edible turtles and terrapins.

(2) Nets: full size specimens and models of many of the principal types used in the fisheries of the United States.

(3) Lines, gear, and apparatus used in the commercial fisheries of the United States.

(4) Series of pictures illustrating the trawl fishery on the North Atlantic banks.

(5) Rods, reels, lines, flies, hooks, and tackle used in sport fishing.

(6) Specimens of economic crustacea of the United States and contiguous waters.

(7) Specimens of the economic mollusca of the United States.

(8) Pearls, pearl shells, and the pearl button industry.

(9) Oysters: local variation, growth, anatomy, and enemies of American oyster.

(10) Oyster culture: some methods and results.

(11) The commercial sponges of North America and the Mediterranean Sea.

(12) Sponge culture: methods, appliances, and rate of growth of sponges reared from cuttings.

(13) Fish oils and fertilizers.

(14) Shells of the principal economic turtles, tortoises, and terrapins of the United States.

(15) Group of Alaskan fur seals.

(16) Models of the steamers *Albatross* and *Fish Hawk* and the schooner *Grampus*, employed in work of the Bureau of Fisheries.

(17) Sounding and collecting apparatus.

(18) Working model of improved fishway (von Bayer's modification of Cail system).

(19) Model of car used by the Bureau in distributing fish and eggs.

(20) Apparatus employed in taking, hatching and distributing eggs and fry.

(21) Model of spawn-taker stripping salmon.

(22) Chinook salmon eggs undergoing incubation.

Various objects submitted in competition will be exhibited in a special room adjacent to the hall where the sessions of the Congress are held.

EXCURSION TO NEW YORK AND NEW ENGLAND

Arrangements have been made for a special excursion during the week following the Congress to important fishery centers on the Atlantic coast. On this trip the foreign delegates will be furnished railroad and steamer transportation. Those desiring to participate in the excursion will please notify the Secretary-General by Thursday, September 24. Special tickets will be issued for the trip. Following is the proposed itinerary:

SUNDAY, SEPTEMBER 27.

12.30 NIGHT

11.00 A. M.

Leave Union Station, Washington, D. C., at hours stated, via Pennsylvania Railroad, for New York. Headquarters in New York will be at Hotel Endicott, Ninth Ave. and Eighty-first St., reached by Sixth and Ninth Avenue elevated trains and Columbus Avenue surface cars; rates \$2.00 per day, European plan. Heavy baggage may be checked from Washington to Boston without charge.

MONDAY, SEPTEMBER 28.

9.45 A. M.

Reception by Director of the New York Aquarium, at the Aquarium, Battery Park, New York City.

12.30 P. M.

Reception and luncheon at the American Museum of Natural History, Seventy-seventh Street and Central Park West, New York City.

5.30 P. M.

Leave for Fall River, Mass., by Fall River Line, Pier 19, North River, foot of Warren Street, New York City.

TUESDAY, SEPTEMBER 29.

8.30 A. M.

Leave Fall River wharf by special steamer "H. C. Rowe & Co." for inspection of oyster grounds of Narragansett Bay, and proceed thence to Wickford, Rhode Island.

1.00 P. M.

Reception by the Governor of Rhode Island and luncheon on houseboat "Biophore," and inspection of lobster-rearing plant of Rhode Island Fish Commission. Later proceed to Newport, R. I., where the night will be spent.

WEDNESDAY, SEPTEMBER 30.

8.00 A. M.

Leave Newport on U. S. Fisheries Steamer Fish Hawk, arriving at Woods Hole, Mass., about 2.30 p. m. Weather permitting, there will be demonstration of methods of deep-sea dredging and sounding en route. Luncheon will be served on board.

4.22 P. M.

Take train for Boston, Mass., where party will stop at Young's Hotel and Parker House.

THURSDAY, OCTOBER 1.

9.00 A. M.

The party will be met by committee of the T Wharf Association and Boston Fish Bureau, and escorted to fish wharves and Quincy Market Cold Storage Plant. After luncheon at Young's Hotel there will be a reception at the State House by the Governor of Massachusetts, and at the City Hall by the Mayor of Boston, followed by a drive to points of interest, including the factory of the American Net & Twine Company and Harvard University. In the evening there will be a banquet at Young's Hotel.

9.25 A. M.

Leave Boston by train for Gloucester, arriving at 10.30 a. m., where a committee of the Gloucester Board of Trade and the Master Mariners' Association will meet the party and serve as escort during the two days spent in Gloucester. The program here includes visits to fish wharves, fish-curing and packing plants, and cement works. Inspection visits will be made to the United States marine hatchery and to typical fishing vessels, and, weather permitting, there will be a demonstration of purse-seine fishing off the harbor. Other entertainment will also be provided. The headquarters in Gloucester will be the Surfside Hotel, rates \$3.00 per day, American plan.

At Gloucester the party will disband, but itineraries and letters of introduction will be furnished to members who desire to visit other places of interest in connection with the fisheries and fish culture.

LOCAL ADVISORY COMMITTEE

Hon. George M. Bowers, Chairman.

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James F. Hood, Chairman Ways and Means Sub-Committee.

Dr. Richard Rathbun, Chairman Exhibits Sub-Committee.

Major Richard Sylvester, Chairman Entertainment Sub-Committee.

Hon. Henry L. West, Chairman Reception Sub-Committee.

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